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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/618,057	07/11/2003	Takahiro Shimura	KAW-0040	4317
23413 75	590 06/09/2004		EXAMINER	
CANTOR COLBURN, LLP			CHERVINSKY, BORIS LEO	
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
			2835	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)				
	10/618,057	SHIMURA ET AL.)			
Office Action Summary	Examiner	Art Unit	pm			
	Boris L. Chervinsky	2835	•			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence add	ress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reproving the statutory minimum of thirty will apply and will expire SIX (6) MONTI cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this com. NDONED (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on 11 Ju	<u>ıly 2003</u> .					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-35 is/are pending in the application.						
4a) Of the above claim(s) is/are withdray						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-35 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
	_					
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 11 July 2003 is/are: a) accepted or b) ⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
•						
11)☐ The oath or declaration is objected to by the Ex	ammer. Note the attached	Office Action of John PTC	J-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority documents 	s have been received.					
Certified copies of the priority documents	s have been received in Ap	plication No				
Copies of the certified copies of the prior	•	eceived in this National S	tage			
application from the International Bureau	•					
* See the attached detailed Office action for a list	of the certified copies not re	eceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		mmary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		/Mail Date ormal Patent Application (PTO-1	152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:		.02)			

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 1, 8. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 2. Claims 1-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- The claims are generally narrative and indefinite, failing to conform with current
 U.S. practice. They appear to be a literal translation into English from a foreign
 document and are replete with grammatical and idiomatic errors.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4, 9, 10, 12, 14, 15, 17, 19-20, 21-32, 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura et al. in view of Kawabata et al.

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Kimura discloses a heat sink having a base plate 10 made of thermally conductive material, a plurality of fins 3 formed on a surface of the base plate, at least one heat pipe 1 positioned in a heat pipe mounting portion such as hollow portion, portions in the vicinity of the heat pipe being crimped to join the heat pipe and the base plate (Fig. 5A-Fig. 6B); the heat pipe and fins are arranged in crossed directions; one end of the heat pipe is extended to be connected with another heat sink (see Fig. 11). Kimura discloses the claimed invention except fins being attached to the base plate by crimping. Kawabata discloses a heat sink having fins attached to the base plate by either slit or point crimping. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to attach fins as disclosed by Kawabata for the device disclosed by Kimura to provide efficient close pitch fins on the base plate. Kimura discloses the claimed invention except fan. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to have fan for sufficient cooling of fins as disclosed in prior art cited in US PTO Form 892 which is not applied at this time. The prior art also shows the surface of the heat pipes being placed flush with the surface of the base plate or extending from that surface (see Chao, Prasher et al. and Shutou et al. references which are not applied at this time), therefore it also obvious. It would have been also obvious to one having ordinary skill in the art at the time the invention was made to use slit or point crimping methods since having the functional features of the claims which are limiting the method of manufacture, but do not provide the structure, which differentiates the final product from the product

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described in the prior art. The method steps of claims 19 and 20 are necessitated by the device structure as disclosed by Kimura et al in view of Kawabata et al.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claim 18 is rejected under 35 U.S.C. 102(e) as being anticipated by Komatsu et al.

Komatsu discloses a heat sink 6 with fins comprising: a base plate made of a heat conductive material; a plurality of heat dissipating fins 18 which are joined to one surface of said base plate; and at least one heat pipe 2 positioned in a heat-pipe mounting portion formed on the surface of said base plate to which said heat dissipating fins are joined.

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Allowable Subject Matter

8. Claim 5 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

9. Claims 6-8, 11,13, 16, 33, 35 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boris L. Chervinsky whose telephone number is 571-272-2039. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on 571-272-2800 ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BORIS CHERVINSKY PRIMARY EXAMINER Breis L. Germane

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